

0707170

https://www.phoenixcontact.com/us/products/0707170

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Feed-through header, nominal cross section: 2.5 mm², color: green, nominal current: 12 A, rated voltage (III/2): 320 V, contact surface: Sn, contact connection type: Pin, number of potentials: 10, number of rows: 1, number of positions: 10, number of connections: 10, product range: DFK-MSTB 2,5/..-G, pitch: 5 mm, connection method: Solder/Slip-on connection, mounting: Direct mounting, pin layout: Linear pinning, solder pin [P]: 9.3 mm, number of solder pins per potential: 1, plug-in system: COMBICON MSTB 2,5, Pin connector pattern alignment: Standard, locking: without, mounting: without, type of packaging: packed in cardboard, accessory Item No. 5030172 can only be used in conjunction with MSTB 2,5/...ST and MSTBT 2,5/...ST.

#### Your advantages

- · Cable connection on the inside of the device enables flexible positioning of the panel feed-through
- Free choice permanent solder connection or standardized slip-on connection
- · Maximum flexibility when it comes to device design one header for connectors with different connection technologies

#### Commercial data

Item number	0707170
Packing unit	50 pc
Minimum order quantity	50 pc
Sales key	AA03
Product key	AACWAA
Catalog page	Page 352 (C-1-2013)
GTIN	4017918003944
Weight per piece (including packing)	10.27 g
Weight per piece (excluding packing)	9.453 g
Customs tariff number	85366930
Country of origin	DE



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#### Technical data

### Product properties

Product type	Feed-through header
Product family	DFK-MSTB 2,5/G
Product line	COMBICON Connectors M
Туре	Feed-through header
Number of positions	10
Pitch	5 mm
Number of connections	10
Number of rows	1
Number of potentials	10
Mounting flange	without
Pin layout	Linear pinning
Solder pins per potential	1
Data management status	
Data management status	
Article revision	02

### Electrical properties

Nominal current I <sub>N</sub>	12 A
Nominal voltage U <sub>N</sub>	320 V
Contact resistance	1.5 mΩ
Rated voltage (III/3)	320 V
Rated surge voltage (III/3)	4 kV
Rated voltage (III/2)	320 V
Rated surge voltage (III/2)	4 kV
Rated voltage (II/2)	630 V
Rated surge voltage (II/2)	4 kV

#### Mounting

Mounting type	Direct mounting
Pin layout	Linear pinning
Attachment to feed-through panel	

#### Material specifications

Screw

#### Material data - contact

Material data - Contact	
Note	WEEE/RoHS-compliant, free of whiskers according to IEC 60068-2-82/JEDEC JESD 201
Contact material	Cu alloy
Surface characteristics	Tin-plated

0708263 DFK-MSTB SS for housing walls of up to 6 mm thick

Temperature for the ball pressure test according to EN 60695-



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Metal surface contact area (top layer)	Tin (5 - 7 µm Sn)
Metal surface contact area (middle layer)	Nickel (2 - 3 µm Ni)
Metal surface soldering area (top layer)	Tin (5 - 7 µm Sn)
Metal surface soldering area (middle layer)	Nickel (2 - 3 µm Ni)
Material data - housing	
Color (Housing)	green (6021)
Insulating material	PA
Insulating material group	I
CTI according to IEC 60112	600
Flammability rating according to UL 94	V0
Glow wire flammability index GWFI according to EN 60695-2-12	850
Glow wire ignition temperature GWIT according to EN 60695-2-	775

#### Notes

Notes on operation	In accordance with IEC 61984, COMBICON connectors have no switching power (COC). During designated use, they must not be
	plugged in or disconnected when carrying voltage or under load.

125 °C

#### Dimensions

Dimensional drawing	ph ph
Pitch	5 mm
Width [w]	70 mm
Height [h]	29.5 mm
Length [I]	17.5 mm
Installed height	20.2 mm
Solder pin length [P]	9.3 mm
Pin dimensions	0.8 x 2.8 mm
PCB design	
Hole diameter	3.2 mm

#### Mechanical tests

\/icual	inspection
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Specification	IEC 60512-1-1:2002-02
Result	Test passed
Dimension check	
Specification	IEC 60512-1-2:2002-02



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Result

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Resistance of inscriptions	
Specification	IEC 60068-2-70:1995-12
Result	Test passed
Polarization and coding	
Specification	IEC 60512-13-5:2006-02
Result	Test passed
Contact holder in insert	
Specification	IEC 60512-15-1:2008-05
Contact holder in insert Requirements >20 N	Test passed
Insertion and withdrawal forces	
Result	Test passed
No. of cycles	25
Insertion strength per pos. approx.	8 N
Withdraw strength per pos. approx.	6 N
Thermal test   Test group C	
Thermal test   Test group C Specification	IEC 60512-5-1:2002-02
Thermal test   Test group C Specification Tested number of positions	IEC 60512-5-1:2002-02
Specification	
Specification Tested number of positions	
Specification Tested number of positions Insulation resistance	16
Specification Tested number of positions Insulation resistance Specification Insulation resistance, neighboring positions	16 IEC 60512-3-1:2002-02
Specification Tested number of positions Insulation resistance Specification Insulation resistance, neighboring positions	16 IEC 60512-3-1:2002-02
Specification Tested number of positions  nsulation resistance Specification Insulation resistance, neighboring positions  Air clearances and creepage distances	16  IEC 60512-3-1:2002-02  > 5 ΜΩ
Specification Tested number of positions  nsulation resistance Specification Insulation resistance, neighboring positions  Air clearances and creepage distances   Specification	16  IEC 60512-3-1:2002-02  > 5 ΜΩ
Specification Tested number of positions  nsulation resistance Specification Insulation resistance, neighboring positions  Air clearances and creepage distances   Specification Insulating material group	16  IEC 60512-3-1:2002-02  > 5 MΩ  IEC 60664-1:2007-04  I
Specification Tested number of positions  nsulation resistance Specification Insulation resistance, neighboring positions  Air clearances and creepage distances   Specification Insulating material group Comparative tracking index (IEC 60112)	16  IEC 60512-3-1:2002-02  > 5 MΩ  IEC 60664-1:2007-04  I  CTI 600
Specification Tested number of positions  nsulation resistance Specification Insulation resistance, neighboring positions  Air clearances and creepage distances   Specification Insulating material group Comparative tracking index (IEC 60112) Rated insulation voltage (III/3)	16  IEC 60512-3-1:2002-02  > 5 MΩ  IEC 60664-1:2007-04  I  CTI 600  320 V
Specification Tested number of positions  nsulation resistance Specification Insulation resistance, neighboring positions  Air clearances and creepage distances   Specification Insulating material group Comparative tracking index (IEC 60112) Rated insulation voltage (III/3) Rated surge voltage (III/3)	16  IEC 60512-3-1:2002-02  > 5 MΩ  IEC 60664-1:2007-04  I  CTI 600  320 V  4 kV
Specification Tested number of positions  nsulation resistance Specification Insulation resistance, neighboring positions  Air clearances and creepage distances   Specification Insulating material group Comparative tracking index (IEC 60112) Rated insulation voltage (III/3) Rated surge voltage (III/3) minimum clearance value - non-homogenous field (III/3)	16  IEC 60512-3-1:2002-02  > 5 MΩ  IEC 60664-1:2007-04  I  CTI 600  320 V  4 kV  3 mm
Specification Tested number of positions Insulation resistance Specification Insulation resistance, neighboring positions Air clearances and creepage distances   Specification Insulating material group Comparative tracking index (IEC 60112) Rated insulation voltage (III/3) Rated surge voltage (III/3) minimum clearance value - non-homogenous field (III/3) minimum creepage distance (III/3)	16  IEC 60512-3-1:2002-02  > 5 MΩ  IEC 60664-1:2007-04  I  CTI 600  320 V  4 kV  3 mm  4 mm
Specification Tested number of positions  nsulation resistance Specification Insulation resistance, neighboring positions  Air clearances and creepage distances   Specification Insulating material group Comparative tracking index (IEC 60112) Rated insulation voltage (III/3) Rated surge voltage (III/3) minimum clearance value - non-homogenous field (III/3) minimum creepage distance (III/3) Rated insulation voltage (III/2)	16  IEC 60512-3-1:2002-02  > 5 MΩ  IEC 60664-1:2007-04  I  CTI 600  320 V  4 kV  3 mm  4 mm  320 V
Specification Tested number of positions Insulation resistance Specification Insulation resistance, neighboring positions Air clearances and creepage distances   Specification Insulating material group Comparative tracking index (IEC 60112) Rated insulation voltage (III/3) Rated surge voltage (III/3) minimum clearance value - non-homogenous field (III/3) minimum creepage distance (III/3) Rated insulation voltage (III/2) Rated surge voltage (III/2)	16  IEC 60512-3-1:2002-02  > 5 MΩ  IEC 60664-1:2007-04  I  CTI 600  320 V  4 kV  3 mm  4 mm  320 V  4 kV
Specification Tested number of positions  Insulation resistance Specification Insulation resistance, neighboring positions  Air clearances and creepage distances   Specification Insulating material group Comparative tracking index (IEC 60112) Rated insulation voltage (III/3) Rated surge voltage (III/3) minimum clearance value - non-homogenous field (III/3) minimum creepage distance (III/2) Rated surge voltage (III/2) Rated surge voltage (III/2) minimum clearance value - non-homogenous field (III/2)	16  IEC 60512-3-1:2002-02  > 5 MΩ  IEC 60664-1:2007-04  I  CTI 600  320 V  4 kV  3 mm  4 mm  320 V  4 kV  3 mm
Specification Tested number of positions Insulation resistance Specification Insulation resistance, neighboring positions Air clearances and creepage distances   Specification Insulating material group Comparative tracking index (IEC 60112) Rated insulation voltage (III/3) Rated surge voltage (III/3) minimum clearance value - non-homogenous field (III/3) Rated insulation voltage (III/2) Rated surge voltage (III/2) minimum clearance value - non-homogenous field (III/2) minimum clearance value - non-homogenous field (III/2) minimum creepage distance (III/2)	IEC 60512-3-1:2002-02  > 5 MΩ  IEC 60664-1:2007-04  I  CTI 600  320 V  4 kV  3 mm  4 mm  320 V  4 kV  3 mm  3 mm  3 mm
Specification Tested number of positions  Insulation resistance Specification Insulation resistance, neighboring positions  Air clearances and creepage distances   Specification Insulating material group Comparative tracking index (IEC 60112) Rated insulation voltage (III/3) Rated surge voltage (III/3) minimum clearance value - non-homogenous field (III/3) minimum creepage distance (III/2) Rated surge voltage (III/2) Rated surge voltage (III/2) Rated surge voltage (III/2) Rated surge voltage (III/2) minimum creepage distance (III/2) Rated insulation voltage (III/2) Rated insulation voltage (III/2) Rated insulation voltage (III/2) Rated insulation voltage (III/2)	16  IEC 60512-3-1:2002-02  > 5 MΩ  IEC 60664-1:2007-04  I  CTI 600  320 V  4 kV  3 mm  4 mm  320 V  4 kV  3 mm  3 mm  630 V

Test passed



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#### Environmental and real-life conditions

Type of packaging

pecification	IEC 60068-2-6:2007-12
Frequency	10 - 150 - 10 Hz
Sweep speed	1 octave/min
Amplitude	0.35 mm (10 Hz 60.1 Hz)
Acceleration	5g (60.1 Hz 150 Hz)
Test duration per axis	2.5 h
Test directions	X-, Y- and Z-axis
rability test	
Specification	IEC 60512-9-1:2010-03
Impulse withstand voltage at sea level	4.8 kV
Contact resistance R <sub>1</sub>	1.5 mΩ
Contact resistance R <sub>2</sub>	1.5 mΩ
Insertion/withdrawal cycles	25
Insulation resistance, neighboring positions	> 5 MΩ
matic test	
Specification	ISO 22479:2019-05
Corrosive stress	0.2 dm <sup>3</sup> SO <sub>2</sub> on 300 dm <sup>3</sup> /40 °C/1 cycle
Thermal stress	105 °C/168 h
Power-frequency withstand voltage	2.21 kV
nbient conditions	
Ambient temperature (operation)	-40 °C 105 °C (dependent on the derating curve)
Ambient temperature (storage/transport)	-40 °C 70 °C
Relative humidity (storage/transport)	30 % 70 %
Ambient temperature (assembly)	-5 °C 100 °C
kaging specifications	
raging specifications	

packed in cardboard



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### **Approvals**

To download certificates, visit the product detail page: https://www.phoenixcontact.com/us/products/0707170

CSA Approval ID: 13631				
	Nominal voltage $U_N$	Nominal current I <sub>N</sub>	Cross section AWG	Cross section mm <sup>2</sup>
Use group B				
	300 V	15 A	-	-
Use group D				
	300 V	10 A	-	-

cULus Recogn Approval ID: E6042	cULus Recognized Approval ID: E60425-19931011			
	Nominal voltage $U_N$	Nominal current I <sub>N</sub>	Cross section AWG	Cross section mm <sup>2</sup>
Use group B				
	300 V	15 A	-	-
Use group D				
	300 V	10 A	-	-

VDE Zeichengenehmigung Approval ID: 40050648				
	Nominal voltage $U_N$	Nominal current I <sub>N</sub>	Cross section AWG	Cross section mm <sup>2</sup>
	250 V	12 A	-	-



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### Classifications

#### **ECLASS**

	ECLASS-11.0	27460201	
	ECLASS-12.0	27460201	
	ECLASS-13.0	27460201	
ETIM			
	ETIM 9.0	EC002637	
UNSPSC			
	UNSPSC 21.0	39121400	



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### Environmental product compliance

EU RoHS			
Fulfills EU RoHS substance requirements	Yes, No exemptions		
China RoHS			
Environment friendly use period (EFUP)	EFUP-E		
	No hazardous substances above the limits		
EU REACH SVHC			
REACH candidate substance (CAS No.)	No substance above 0.1 wt%		



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#### Accessories

DFK-MSTB-SS - Screw set

0708263

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Screw set, for securing the header to the device wall, consists of an M3 x 10 screw, with a spring washer and a nut

#### CR-MSTB - Coding section

1734401

https://www.phoenixcontact.com/us/products/1734401

Coding section, inserted into the recess in the header or the inverted plug, red insulating material  $% \left( 1\right) =\left( 1\right) \left( 1\right) +\left( 1\right) \left( 1\right) \left( 1\right) +\left( 1\right) \left( 1\right) \left( 1\right) \left( 1\right) +\left( 1\right) \left( 1\right$ 





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#### MSTB-BL - Accessories

1755477

https://www.phoenixcontact.com/us/products/1755477



Keying cap, for forming sections, plugs onto header pin, green insulating material

#### DFK-MSTB-R - Accessories

5030172

https://www.phoenixcontact.com/us/products/5030172



Locking latch, red insulating material, for housings MSTB 2.5/...ST and MSTBT 2.5/..ST



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#### C-SCF 1/2,8X0,8 - Connector

3240153

https://www.phoenixcontact.com/us/products/3240153



Slip-on sleeve, non-insulated, 0.5 ... 1 mm<sup>2</sup>, 2.8 x 0.8

#### C-SCFI 1,5/2,8X0,8 - Connector

3240049

https://www.phoenixcontact.com/us/products/3240049

Slip-on sleeve, red, 0.5 ... 1.5 mm<sup>2</sup>, 2.8 x 0.8





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#### C-SCFFI 1,5/2,8X0,8 - Connector

3240535

https://www.phoenixcontact.com/us/products/3240535



Slip-on sleeve, fully isolated, red, 0.5 ... 1.5 mm<sup>2</sup>, for plug 2.8 x 0.8 mm

#### FKCT 2,5/10-ST - PCB connector

1909294

https://www.phoenixcontact.com/us/products/1909294



PCB connector, nominal cross section: 2.5 mm², color: green, nominal current: 12 A, rated voltage (III/2): 320 V, contact surface: Sn, contact connection type: Socket, number of potentials: 10, number of rows: 1, number of positions: 10, number of connections: 10, product range: FKCT 2,5/..-ST, pitch: 5 mm, connection method: Push-in spring connection, conductor/PCB connection direction: 0 °, locking clip: - Locking clip, plug-in system: COMBICON MSTB 2,5, locking: without, mounting: without, type of packaging: packed in cardboard



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#### FKC 2,5/10-ST - PCB connector

1910432

https://www.phoenixcontact.com/us/products/1910432



PCB connector, nominal cross section: 2.5 mm², color: green, nominal current: 12 A, rated voltage (III/2): 320 V, contact surface: Sn, contact connection type: Socket, number of potentials: 10, number of rows: 1, number of positions: 10, number of connections: 10, product range: FKC 2,5/..-ST, pitch: 5 mm, connection method: Push-in spring connection, conductor/PCB connection direction: 0 °, locking clip: - Locking clip, plug-in system: COMBICON MSTB 2,5, locking: without, mounting: without, type of packaging: packed in cardboard

#### FKCVR 2,5/10-ST - PCB connector

1909799

https://www.phoenixcontact.com/us/products/1909799



PCB connector, nominal cross section: 2.5 mm², color: green, nominal current: 12 A, rated voltage (III/2): 320 V, contact surface: Sn, contact connection type: Socket, number of potentials: 10, number of rows: 1, number of positions: 10, number of connections: 10, product range: FKCVR 2,5/..-ST, pitch: 5 mm, connection method: Push-in spring connection, conductor/PCB connection direction: 90 °, locking clip: - Locking clip, plug-in system: COMBICON MSTB 2,5, locking: without, mounting: without, type of packaging: packed in cardboard



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#### MSTB 2,5/10-STZ - PCB connector

1759004

https://www.phoenixcontact.com/us/products/1759004



PCB connector, nominal cross section: 2.5 mm², color: green, nominal current: 12 A, rated voltage (III/2): 320 V, contact surface: Sn, contact connection type: Socket, number of potentials: 10, number of rows: 1, number of positions: 10, number of connections: 10, product range: MSTB 2,5/..-ST, pitch: 5 mm, connection method: Screw connection with tension sleeve, screw head form: L Slotted, conductor/PCB connection direction: 0 °, locking clip: - Locking clip, plug-in system: COMBICON MSTB 2,5, locking: without, mounting: without, type of packaging: packed in cardboard

#### MVSTBW 2,5/10-ST - PCB connector

1792605

https://www.phoenixcontact.com/us/products/1792605



PCB connector, nominal cross section: 2.5 mm², color: green, nominal current: 12 A, rated voltage (III/2): 320 V, contact surface: Sn, contact connection type: Socket, number of potentials: 10, number of rows: 1, number of positions: 10, number of connections: 10, product range: MVSTBW 2,5/..-ST, pitch: 5 mm, connection method: Screw connection with tension sleeve, screw head form: L Slotted, conductor/PCB connection direction: -90 °, locking clip: - Locking clip, plug-in system: COMBICON MSTB 2,5, locking: without, mounting: without, type of packaging: packed in cardboard



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#### MSTBT 2,5/10-ST - PCB connector

1779916

https://www.phoenixcontact.com/us/products/1779916



PCB connector, nominal cross section: 2.5 mm², color: green, nominal current: 12 A, rated voltage (III/2): 320 V, contact surface: Sn, contact connection type: Socket, number of potentials: 10, number of rows: 1, number of positions: 10, number of connections: 10, product range: MSTBT 2,5/..-ST, pitch: 5 mm, connection method: Screw connection with tension sleeve, screw head form: L Slotted, conductor/PCB connection direction: 0 °, locking clip: - Locking clip, plug-in system: COMBICON MSTB 2,5, locking: without, mounting: without, type of packaging: packed in cardboard

#### SMSTB 2,5/10-ST - PCB connector

1768833

https://www.phoenixcontact.com/us/products/1768833



PCB connector, nominal cross section: 2.5 mm², color: green, nominal current: 12 A, rated voltage (III/2): 320 V, contact surface: Sn, contact connection type: Socket, number of potentials: 10, number of rows: 1, number of positions: 10, number of connections: 10, product range: SMSTB 2,5/..-ST, pitch: 5 mm, connection method: Screw connection with tension sleeve, screw head form: L Slotted, conductor/PCB connection direction: -45 °, locking clip: - Locking clip, plug-in system: COMBICON MSTB 2,5, locking: without, mounting: without, type of packaging: packed in cardboard



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#### MSTBP 2,5/10-ST - PCB connector

1765852

https://www.phoenixcontact.com/us/products/1765852



PCB connector, nominal cross section: 2.5 mm², color: green, nominal current: 12 A, rated voltage (III/2): 320 V, contact surface: Sn, contact connection type: Socket, number of potentials: 10, number of rows: 1, number of positions: 10, number of connections: 10, product range: MSTBP 2,5/..-ST, pitch: 5 mm, connection method: Screw connection with tension sleeve, screw head form: L Slotted, conductor/PCB connection direction: 0 °, locking clip: - Locking clip, plug-in system: COMBICON MSTB 2,5, locking: without, mounting: without, type of packaging: packed in cardboard

#### FRONT-MSTB 2,5/10-ST - PCB connector

1779495

https://www.phoenixcontact.com/us/products/1779495



PCB connector, nominal cross section: 2.5 mm², color: green, nominal current: 12 A, rated voltage (III/2): 320 V, contact surface: Sn, contact connection type: Socket, number of potentials: 10, number of rows: 1, number of positions: 10, number of connections: 10, product range: FRONT-MSTB 2,5/..-ST, pitch: 5 mm, connection method: Front screw connection, screw head form: L Slotted, conductor/PCB connection direction: 0 °, locking clip: - Locking clip, plug-in system: COMBICON MSTB 2,5, locking: without, mounting: without, type of packaging: packed in cardboard



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#### FKCVW 2,5/10-ST - PCB connector

1910115

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PCB connector, nominal cross section: 2.5 mm², color: green, nominal current: 12 A, rated voltage (III/2): 320 V, contact surface: Sn, contact connection type: Socket, number of potentials: 10, number of rows: 1, number of positions: 10, number of connections: 10, product range: FKCVW 2,5/..-ST, pitch: 5 mm, connection method: Push-in spring connection, conductor/PCB connection direction: -90 °, locking clip: - Locking clip, plug-in system: COMBICON MSTB 2,5, locking: without, mounting: without, type of packaging: packed in cardboard

#### MSTB 2,5/10-ST - PCB connector

1754601

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PCB connector, nominal cross section: 2.5 mm², color: green, nominal current: 12 A, rated voltage (III/2): 320 V, contact surface: Sn, contact connection type: Socket, number of potentials: 10, number of rows: 1, number of positions: 10, number of connections: 10, product range: MSTB 2,5/..-ST, pitch: 5 mm, connection method: Screw connection with tension sleeve, screw head form: L Slotted, conductor/PCB connection direction: 0 °, locking clip: - Locking clip, plug-in system: COMBICON MSTB 2,5, locking: without, mounting: without, type of packaging: packed in cardboard



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#### MVSTBR 2,5/10-ST - PCB connector

1792090

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PCB connector, nominal cross section: 2.5 mm², color: green, nominal current: 12 A, rated voltage (III/2): 320 V, contact surface: Sn, contact connection type: Socket, number of potentials: 10, number of rows: 1, number of positions: 10, number of connections: 10, product range: MVSTBR 2,5/..-ST, pitch: 5 mm, connection method: Screw connection with tension sleeve, screw head form: L Slotted, conductor/PCB connection direction: 90 °, locking clip: - Locking clip, plug-in system: COMBICON MSTB 2,5, locking: without, mounting: without, type of packaging: packed in cardboard

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